

LISTING OF CLAIMS:

1. (Currently Amended) A non-transitory recording medium having recorded thereon a video stream and a graphics stream, wherein:

the video stream represents a moving picture made up of a plurality of pictures;

the graphics stream is used for overlaying a menu on the moving picture, and includes interactive control information and graphics data;

the graphics data is used for generating both the menu and an effect presented for introducing or removing the menu;

~~the interactive control information includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect;~~

the interactive control information includes menu information and time information showing a time period during which the menu is to be presented;

the menu information includes button information and effect information;

the effect information defines the effect for introducing or removing the menu and includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect; and

each piece of composition information shows (i) a bounding area on a graphics plane within which a respective display composition is rendered and (ii) a duration after which the display composition is replaced by a subsequent display composition to be rendered within the same bounding area.

Claim 2 (Canceled)

3. (Currently Amended) A non-transitory recording medium having recorded thereon a video stream and a graphics stream, wherein:

the video stream represents a moving picture made up of a plurality of pictures;

the graphics stream is used for overlaying a menu on the moving picture, and includes interactive control information and graphics data;

the graphics data is used for generating both the menu and an effect presented for introducing or removing the menu;

the interactive control information includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect;

each piece of composition information shows (i) a bounding area on a graphics plane within which a respective display composition is rendered and (ii) a duration after which the display composition is replaced by a subsequent display composition to be rendered within the same bounding area; and

~~The recording medium according to Claim 1, wherein~~

the duration is determined based on a value calculated by dividing the size of the bounding area by a transfer rate of a playback apparatus.

4. (Currently Amended) The non-transitory recording medium according to Claim 1, wherein:

the graphics stream includes one or more pieces of pallet data;

the interactive control information includes a plurality of pieces of page information each defining a page of the menu available for presentation; and

each piece of page information includes a pallet ID uniquely identifying a piece of pallet data to be used for presentation of a respective page.

5. (Currently Amended) A non-transitory recording medium having recorded thereon a video stream and a graphics stream, wherein:

the video stream represents a moving picture made up of a plurality of pictures;

the graphics stream is used for overlaying a menu on the moving picture, and includes interactive control information and graphics data;

the graphics data is used for generating both the menu and an effect presented for introducing or removing the menu;

the interactive control information includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect;

each piece of composition information shows (i) a bounding area on a graphics plane within which a respective display composition is rendered and (ii) a duration after which the display composition is replaced by a subsequent display composition to be rendered within the same bounding area; and

~~The recording medium according to Claim 1, wherein:~~

when the effect is an in-effect to be presented preceding the menu, a set of graphics data associated with the in-effect is located in a string of the graphics data before a set of graphics data associated with the menu;

the interactive control information is encapsulated in a packet; and

a timestamp attached to the packet shows a time for starting playback of the in-effect.

Claims 6-10 (Canceled)

11. (Currently Amended) A method for recording onto a non-transitory recording medium, comprising:

- generating application data using an authoring device; and
- recording the application data onto the recording medium, wherein:
 - the application data includes a video stream and a graphics stream;
 - the graphics stream is used for overlaying a menu on the moving picture, and includes interactive control information and graphics data;
 - the graphics data is used for generating both the menu and an effect presented for introducing or removing the menu;
 - ~~the interactive control information includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect;~~
 - the interactive control information includes menu information and time information showing a time period during which the menu is to be presented;
 - the menu information includes button information and effect information;
 - the effect information defines the effect for introducing or removing the menu and includes a plurality of pieces of composition information defining a sequence of display compositions of graphics constituting the effect; and
 - each piece of composition information shows (i) a bounding area on a graphics plane within which a respective display composition is rendered and (ii) a duration after which the display composition is replaced by a subsequent display composition to be rendered within the same bounding area.

Claims 12-14 (Canceled)